012398026 **Image available** WPI Acc No: 1999-204133/199917

XRPX Acc No: N99-150336

Actuator controller e.g. for brushless motor

Patent Assignee: MITSUBISHI DENKI KK (MITQ); MITSUBISHI ELECTRIC CORP

(MITQ)

Inventor: WATANABE S

Number of Countries: 004 Number of Patents: 005

Patent Family:

Week	
99917	В
00000	
99928	
99933	
33332	
00036	
00220	
	99917 99928 99932 00036

Priority Applications (No Type Date): JP 97313696 A 19971114

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5880565 A 11 H02J-005/00 DE 19811844 A1 G05B-013/02 JP 11148378 A 9 F02D-011/10 KR 99044791 A F02D-045/00

KR 286567 B F02D-045/00 Previous Publ. patent KR 99044791

Abstract (Basic): US 5880565 A

NOVELTY - A predetermined initial value outside the range of learned values is written in memory, beforehand. If it is determined that battery is detached, then memory is determined to be in an unlearnt state with reference to stored data value, when data value exhibits predetermined initial value.

DETAILED DESCRIPTION - A sensor (6) detects operation position of an actuator (1) relying upon voltage signal. An actuator control unit (17) controls actuator such that operation position becomes target position. An actuator drive unit (18) drives actuator based on control quantity from actuator control unit to which electric power is supplied from a battery (9). A determination unit (11) determines attached or detached state of battery. A memory (12) stores data regarding relationship between operation position and voltage signal as a learned value.

USE - For controlling brushless motor or throttle actuator automobile engine.

ADVANTAGE - Prevents determining defective state erroneously due its own diagnosing function.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of actuator controller.

Actuator (1)
Sensor (6)
Battery (9)
Determination unit (11)
Memory (12)
Actuator control unit (17)
Actuator drive unit (18)

pp; 11 DwgNo 1/6

Title Terms: ACTUATE; CONTROL; BRUSH; MOTOR
Derwent Class: Q52; T01; T06; U24; V06; X16; X22
International Patent Class (Main): F02D-011/10; F02D-045/00; G05B-013/02;
H02J-005/00
International Patent Class (Additional): F02D-009/10; F02D-041/00;
F02D-041/22; G05B-023/02; G05D-003/00; H02J-007/14; H02K-011/00;
H02P-006/12
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-H01B3; T01-J08F; T01-J16C2; T06-A07A; U24-H;
V06-N04; V06-N26; V06-U03; X16-H; X22-A03B1A